PATENT

TED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

Christoph Keller et al.

APPLICATION NO.:

10/081,544

FILING DATE:

February 19, 2002

TITLE:

COMPARTMENT FOR POWDER COATING OF

WORKPIECES

EXAMINER:

Unassigned

GROUP ART UNIT:

1734

ATTY. DKT. NO.:

20649-06610

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner For Patents, Washington, D.C. 20231, on the date shown below:

Dated:

Albert C. Smith, Reg. No.: 20,355

COMMISSIONER FOR PATENTS WASHINGTON, DC. 20231

INFORMATION DISCLOSURE STATEMENT Under 37 CFR §§ 1.56 and 1.97-98

SIR: Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO-1449 listing references for consideration by the Examiner. Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose. Concise explanations of the relevance of each of the cited references that are not in the English language are believed to be accurately set forth in the attached English abstracts, or as set forth as follows:

- Figures 1-3 and the specification disclose a system for producing a powder gas stream that includes two sensors attached to a feed line containing the powder gas stream, wherein the sensors detect tribo tensions generated by the powder stream flowing through the line.
- The single figure and the specification disclose a measurement system for determining amounts of powder flowing in an air powder mixture by using tribo electricity which is generated when transporting the powder mixture through a feed line. The measurement results are used for controlling automatic coating systems.

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- Ref. F: Figures 1-3, 9 and the specification disclose a powder coating system in which a plurality of coating units are arranged substantially vertically one above the other for simultaneous powder discharge.
- Ref. G: Figures 1, 4, 5 and the specification disclose an apparatus and a method for measuring a powder mass stream in a powder gas mixture during the transport of the powder gas mixture through a feed line. The speed of the powder gas mixture in the feed line and the powder mass per volume unit are measured and the powder mass stream is calculated from the measured speed and the measured powder mass per volume unit. For measuring the powder mass a microwave resonator is used and, for measuring the powder speed, electrodes surrounding the feed line for measuring tribo tensions are used.
- Ref. I: Figures 1-6 and the specification disclose a method and apparatus for a powder coating system in which powder amounts that are fed to a spray coating device, per time unit, are directly measured and controlled. A radiation measurement means (44) measures the powder amount in a powder gas stream of pneumatically fed powder, and the measurement value is electronically linked with a gas amount value by an electronic processing means (42), the gas amount value corresponding to the gas amount contained in the powder gas stream, for deriving an absolute actual value of the fed powder amount per time unit.
- Ref. J: Figures 1-3 and the specification disclose a powder coating system in which a plurality of coating units are arranged substantially vertically one above the other for simultaneous powder discharge.
- Ref. L: Figures 1-6, and the specification disclose a powder coating system in which a plurality of coating units are arranged substantially vertically one above the other for simultaneous powder discharge.
- Ref M: Figures 1a, 1b, 3 and 4 and the specification disclose apparatus and method for measuring a powder mass flow in a powder/gas mixture during the conveyance thereof through a feed pipe, the apparatus comprising a velocity measuring means for the powder/gas mixture, a mass measuring means for the powder mass per volume unit, and a calculating means to calculate the powder mass flow based on the velocity measured, the powder mass per volume unit measured, and the dimensions of the feed pipe. The mass measuring means comprises a microwave resonator embodied as a coil applied on the outside of the feed pipe for measuring the powder mass flow in the feed pipe by establishing a reference resonance of a known powder mass flow and adjusting two measuring frequencies at either side of the reference resonance and determining the displacement of the resonant frequency as an indication of powder mass flow.

Ref. N: The right column discloses a coating system in which the charging current is detected for monitoring the operation of coating device and controlling the powder throughput and the powder charge via the air pressure for maintaining a constant powder feed amount and for controlling the powder throughput and the specific powder charge in accordance with the detected workpiece.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

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within three months of the filing date of the application, or date of entry								
into th	into the national stage of an international application, or before the mailing							
date of	date of a first office action on the merits, whichever event last occurred;							
before	before the mailing of a first official action after the filing of a request for							
contin	continued examination (RCE) under 37 CFR § 1.114;							
after three months of the filing date of this national application or the date								
of entry of the national stage in an international application, or after the								
mailing date of the first official action on the merits, whichever event last								
occurred, but before the mailing date of the first to occur of either: (1) a								
final a	final action under 37 CFR §1.113; or (2) an action that otherwise closes							
prosec	prosecution in the application, and:							
	attached hereto is the fee set forth under 37 CFR §1.17(p) for							
	submission of this Information Disclosure Statement under 37							
	CFR.§ 1.97(c); OR							
	Applicant certifies pursuant to 37 CFR § 1.97(e) that:							
		each item of information contained in this Information						
		Disclosure Statement was first cited in a communication						
		from a foreign patent office in a counterpart foreign						
		application not more than three months prior to the filing of						
		this Statement; OR						
		no item of information contained in this Information						
		Disclosure Statement was cited in a communication from a						
		foreign patent office in a counterpart foreign application						
		and, to the knowledge of the person signing this						

			certification after making reasonable inquiry, no item of					
			information contained in this Statement was known to any					
			individual designated under 37 CFR § 1.56(c) more than					
			three months prior to the filing of this Statement;					
П	before	the pa	yment of the issue fee but after the mailing date of the first to					
_		_	er: (1) a final action under 37 CFR § 1.113; or (2) an action					
	that of	therwis	e closes prosecution in the application, and:					
			cant certifies pursuant to 37 CFR. § 1.97(e) that:					
		П	each item of information contained in this Information					
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			foreign patent office in a counterpart foreign application no					
			more than three months prior to the filing of this Statement					
			or					
			no item of information contained in this Information					
			Disclosure Statement was cited in a communication from a					
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			and, to the knowledge of the person signing this					
			certification after making reasonable inquiry, no item of					
			information contained in this Statement was known to any					
			individual designated under 37 CFR § 1.56(c) more than					
			three months prior to the filing of this Statement; AND					
		attacl	ned hereto is the fee set forth under 37 CFR §1.17(p) for					
		subm	ission of this Information Disclosure Statement under 37					
		CFR.	§ 1.97(c); OR					
	after t	he pay	ment of the issue fee. Applicant request that the information					
	conta	ined in	this Information Disclosure Statement be placed in the file					
	accor	ding to	37 CFR § 1.97(i), although the information may not be					
	consi	dered b	y the USPTO.					
This a	applicat	ion reli	es, under 35 U.S.C. § 120, on the earlier filing date of prior					
applio	cation N	lo. [AP	PLICATION NUMBER], filed on [FILING DATE], and the					
references cited therein are hereby referenced, but are not required to be provided								
in this	s applic	ation u	nder 37 CFR § 1.98(d).					
Each item of information contained in this Information Disclosure Statement was								
cited in a communication from a foreign patent office in a counterpart application								
and the communication was not received by any individual designated in 37 CFR								

§ 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).

Applicant submits that no fee is required for the consideration of this Information \boxtimes Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted, CHRISTOPH KELLER

Dated:

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Rev. 10/95	0001/PTO U.S. Department of Commerce			10/081,544				
_			Filing Date	February 20, 2002				
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	correspondence during pa filed application)	endency of	Group Art Unit Number	1734				
	•		Examiner Name	Unassigned				
Total Number of Pa	ges in This Submission	7*	Attorney Docket Number	20649-06610				
	ENCL	OSURES	(check all that apply					
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	SIGNAT	URE OF A	TTORNEY OR AGEN	T				
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Attorney/Reg. No.: Albert C. Smith, Reg. No. 20,355								
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Typed or Printed Name: Albert C. Smith Dated: 51102								
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